Author Index

Abe, J.-i., see Ajandouz, E.H. (1159) 193
Aboluwoye, C.O., see Okonjo, K.O. (1159) 303
Adalsteins, A.E., see Tao, H.P. (1159) 13
Ajandouz, E.H., Abe, J.-i., Svensson, B. and Marchis-Mouren, G.
Barley malt-α-amylase. Purification, action pattern, and subsite mapping of isozyme 1 and two members of the isozyme 2 subfamily using *p*-nitrophenylated maltooligosaccharide substrates (1159) 193
Akino, T., see Sohma, H. (1159) 150
Al-Giery, A.G. and Brewer, J.M.
Characterization of the interaction of yeast enolase with polynucleotides (1159) 134
Armstrong, D.W., see Howlett, J.R. (1159) 227
Armstrong, D.W., see Wong, P.T.T. (1159) 237
Ascenzi, P., see Giardina, B. (1159) 129
Atha, D.H., see DeLauder, S. (1159) 141

Balny, C., see Cléry, C. (1159) 295
Bamford, D.H., see Caldentey, J. (1159) 44
Ban, E., see Maurel, M.-C. (1159) 74
Bathurst, I.C., see Ledgerwood, E.C. (1159) 9
Baudin, V., Pagnier, J., Lacaze, N., Bihoreau, M.-T., Kister, J., Marden, M., Kiger, L. and Poyart, C.
Allosteric properties of haemoglobin β41 (C7) Phe → Tyr: a stable, low-oxygen-affinity variant synthesized in *Escherichia coli* (1159) 223
Bergethon, P.R., see Shah, M.A. (1159) 311
Bidart, J.-M., see Maurel, M.-C. (1159) 74
Bihoreau, M.-T., see Baudin, V. (1159) 223
Blake, C.C.F., see Ponting, C.P. (1159) 155
Boak, A.M., see Shah, M.A. (1159) 311
Brennan, S.O., see Ledgerwood, E.C. (1159) 9
Bretting, H., see Buck, F. (1159) 1
Brewer, J.M., see Al-Giery, A.G. (1159) 134
Brown, A.J., see Ponting, C.P. (1159) 155
Bruch, M.D. and Hoyt, D.W.
Conformational analysis of a mitochondrial presequence derived from the F_1-ATPase β-subunit by CD and NMR spectroscopy (1159) 81
Buck, F., Luth, C., Strupat, K. and Bretting, H.
Comparative investigations on the amino-acid sequences of different isolectins from the sponge *Axinella polypoides* (Schmidt) (1159) 1

Caldentey, J. and Bamford, D.H.
The lytic enzyme of the *Pseudomonas* phage φ6. Purification and biochemical characterization (1159) 44
Cederholm-Williams, S.A., see Ponting, C.P. (1159) 155
Cerroni, L., see Giardina, B. (1159) 129
Chang, C.-C., see Lin, S.-R. (1159) 255
Chen, X., see Taoka, S. (1159) 274
Cléry, C., Masson, P., Heiber-Langer, I. and Balny, C.
Soman inhibition of butyrylcholinesterase in the presence of substrate: pressure and temperature perturbations (1159) 295
Collen, D., see Li, X.-K. (1159) 37
Combarnous, Y., see Maurel, M.-C. (1159) 74
Condo, S.G., see Giardina, B. (1159) 129
Creighton, D.J., see Hamilton, D.S. (1159) 203

Dallocchio, F., see Hanau, S. (1159) 262
Darracq, N., see Torres, J.-M. (1159) 60
DeLauder, S., Schwarz, F.P., Williams, Sr., J.C. and Atha, D.H.
Thermodynamic analysis of heparin binding to human antithrombin (1159) 141
Desideri, A., see Giardina, B. (1159) 129

Easterbrook-Smith, S.B., see Wilson, M.R. (1159) 319
Eden, D., see Papp, S. (1159) 267
Esmann, M., Hideg, K. and Marsh, D.
Conventional and saturation transfer EPR spectroscopy of Na^+/K^+-ATPase modified with different maleimide-nitroxide derivatives (1159) 51

Faraggi, M., see Lee, H. (1159) 286
Fernandes, P.A., Keen, J.N., Findlay, J.B.C. and Moradas-Ferreira, P.
A protein homologous to glyceraldehyde-3-phosphate dehydrogenase is induced in the cell wall of a flocculent *Kluyveromyces marxianus* (1159) 67
Findlay, J.B.C., see Fernandes, P.A. (1159) 67
France, R.M., see Grossman, S.H. (1159) 29

Gallop, P.M., see Shah, M.A. (1159) 311
Galtieri, A., see Giardina, B. (1159) 129
Gasa, S., see Kobayashi, T. (1159) 243
George, P.M., see Ledgerwood, E.C. (1159) 9
Giardina, B., Galtieri, A., Lania, A., Ascenzi, P., Desideri, A., Cerroni, L. and Condo, S.G.
Reduced sensitivity of O_2 transport to allosteric effectors and temperature in loggerhead sea turtle hemoglobin: functional and spectroscopic study (1159) 129
Goff, H.M., see Pollock, J.R. (1159) 279
Grossman, S.H., France, R.M. and Mattheis, J.R.
Heterogeneous flexibilities of the active site domains of homodimeric creatine kinase: effect of substrate (1159) 29
Gutteridge, J.M.C. and Quinlan, G.J.
Antioxidant protection against organic and inorganic oxygen radicals by normal human plasma: the important primary role for iron-binding and iron-oxidising proteins (1159) 248

Hamano, T., see Miyazaki, K. (1159) 215
Hamilton, D.S. and Creighton, D.J.
Caution: The glycylmethyl and glycylethyl esters of glutathione are substrates for glyoxalase I (1159) 203
Hanau, S., Dallocchio, F. and Rippa, M.
Subunits asymmetry in the ternary complex of lamb liver 6-phosphogluconate dehydrogenase detected by a NADP analogue (1159) 262
Hayashi, M., see Miyazaki, K. (1159) 215
Heiber-Langer, I., see Cléry, C. (1159) 295
Hideg, K., see Esmann, M. (1159) 51
Highsmith, S., see Papp, S. (1159) 267

Author Index

Abe, J.-i., see Ajandouz, E.H. (1159) 193
Aboluwoye, C.O., see Okonjo, K.O. (1159) 303
Adalsteins, A.E., see Tao, H.P. (1159) 13
Ajandouz, E.H., Abe, J.-i., Svensson, B. and Marchis-Mouren, G.
Barley malt-α-amylase. Purification, action pattern, and subsite mapping of isozyme 1 and two members of the isozyme 2 subfamily using *p*-nitrophenylated maltooligosaccharide substrates (1159) 193
Akino, T., see Sohma, H. (1159) 150
Al-Giery, A.G. and Brewer, J.M.
Characterization of the interaction of yeast enolase with polynucleotides (1159) 134
Armstrong, D.W., see Howlett, J.R. (1159) 227
Armstrong, D.W., see Wong, P.T.T. (1159) 237
Ascenzi, P., see Giardina, B. (1159) 129
Atha, D.H., see DeLauder, S. (1159) 141

Balny, C., see Cléry, C. (1159) 295
Bamford, D.H., see Caldentey, J. (1159) 44
Ban, E., see Maurel, M.-C. (1159) 74
Bathurst, I.C., see Ledgerwood, E.C. (1159) 9
Baudin, V., Pagnier, J., Lacaze, N., Bihoreau, M.-T., Kister, J., Marden, M., Kiger, L. and Poyart, C.
Allosteric properties of haemoglobin β41 (C7) Phe → Tyr: a stable, low-oxygen-affinity variant synthesized in *Escherichia coli* (1159) 223
Bergethon, P.R., see Shah, M.A. (1159) 311
Bidart, J.-M., see Maurel, M.-C. (1159) 74
Bihoreau, M.-T., see Baudin, V. (1159) 223
Blake, C.C.F., see Ponting, C.P. (1159) 155
Boak, A.M., see Shah, M.A. (1159) 311
Brennan, S.O., see Ledgerwood, E.C. (1159) 9
Bretting, H., see Buck, F. (1159) 1
Brewer, J.M., see Al-Giery, A.G. (1159) 134
Brown, A.J., see Ponting, C.P. (1159) 155
Bruch, M.D. and Hoyt, D.W.
Conformational analysis of a mitochondrial presequence derived from the F_1-ATPase β-subunit by CD and NMR spectroscopy (1159) 81
Buck, F., Luth, C., Strupat, K. and Bretting, H.
Comparative investigations on the amino-acid sequences of different isolectins from the sponge *Axinella polypoides* (Schmidt) (1159) 1

Caldentey, J. and Bamford, D.H.
The lytic enzyme of the *Pseudomonas* phage φ6. Purification and biochemical characterization (1159) 44
Cederholm-Williams, S.A., see Ponting, C.P. (1159) 155
Cerroni, L., see Giardina, B. (1159) 129
Chang, C.-C., see Lin, S.-R. (1159) 255
Chen, X., see Taoka, S. (1159) 274
Cléry, C., Masson, P., Heiber-Langer, I. and Balny, C.
Soman inhibition of butyrylcholinesterase in the presence of substrate: pressure and temperature perturbations (1159) 295
Collen, D., see Li, X.-K. (1159) 37
Combarnous, Y., see Maurel, M.-C. (1159) 74
Condo, S.G., see Giardina, B. (1159) 129
Creighton, D.J., see Hamilton, D.S. (1159) 203

Dallocchio, F., see Hanau, S. (1159) 262
Darracq, N., see Torres, J.-M. (1159) 60
DeLauder, S., Schwarz, F.P., Williams, Sr., J.C. and Atha, D.H.
Thermodynamic analysis of heparin binding to human antithrombin (1159) 141
Desideri, A., see Giardina, B. (1159) 129

Easterbrook-Smith, S.B., see Wilson, M.R. (1159) 319
Eden, D., see Papp, S. (1159) 267
Esmann, M., Hideg, K. and Marsh, D.
Conventional and saturation transfer EPR spectroscopy of Na^+/K^+-ATPase modified with different maleimide-nitroxide derivatives (1159) 51

Faraggi, M., see Lee, H. (1159) 286
Fernandes, P.A., Keen, J.N., Findlay, J.B.C. and Moradas-Ferreira, P.
A protein homologous to glyceraldehyde-3-phosphate dehydrogenase is induced in the cell wall of a flocculent *Kluyveromyces marxianus* (1159) 67
Findlay, J.B.C., see Fernandes, P.A. (1159) 67
France, R.M., see Grossman, S.H. (1159) 29

Gallop, P.M., see Shah, M.A. (1159) 311
Galtieri, A., see Giardina, B. (1159) 129
Gasa, S., see Kobayashi, T. (1159) 243
George, P.M., see Ledgerwood, E.C. (1159) 9
Giardina, B., Galtieri, A., Lania, A., Ascenzi, P., Desideri, A., Cerroni, L. and Condo, S.G.
Reduced sensitivity of O_2 transport to allosteric effectors and temperature in loggerhead sea turtle hemoglobin: functional and spectroscopic study (1159) 129
Goff, H.M., see Pollock, J.R. (1159) 279
Grossman, S.H., France, R.M. and Mattheis, J.R.
Heterogeneous flexibilities of the active site domains of homodimeric creatine kinase: effect of substrate (1159) 29
Gutteridge, J.M.C. and Quinlan, G.J.
Antioxidant protection against organic and inorganic oxygen radicals by normal human plasma: the important primary role for iron-binding and iron-oxidising proteins (1159) 248

Hamano, T., see Miyazaki, K. (1159) 215
Hamilton, D.S. and Creighton, D.J.
Caution: The glycylmethyl and glycylethyl esters of glutathione are substrates for glyoxalase I (1159) 203
Hanau, S., Dallocchio, F. and Rippa, M.
Subunits asymmetry in the ternary complex of lamb liver 6-phosphogluconate dehydrogenase detected by a NADP analogue (1159) 262
Hayashi, M., see Miyazaki, K. (1159) 215
Heiber-Langer, I., see Cléry, C. (1159) 295
Hideg, K., see Esmann, M. (1159) 51
Highsmith, S., see Papp, S. (1159) 267

Hoenders, H.J., see Van Boekel, M.A.M. (1159) 99
Holland, S.K., see Ponting, C.P. (1159) 155
Honke, K., see Kobayashi, T. (1159) 243
Howlett, J.R., Ismail, A.A., Armstrong, D.W. and Wong, P.T.T.
Pressure-induced conformational changes in an antigen and an antibody and the implications on their use for hyperbaric immunoadsorption (1159) 227
Hoyt, D.W., see Bruch, M.D. (1159) 81
Hu, M.-H., see Li, X.-K. (1159) 37

Ichikawa, Y., see Iwamoto, Y. (1159) 122
Ishijima, A., see Tanaka, Y. (1159) 94
Ishiwata, S., see Tanaka, Y. (1159) 94
Ismail, A.A., see Howlett, J.R. (1159) 227
Iwamoto, Y., Tsubaki, M., Miura, S. and Ichikawa, Y.
Absorbance spectral change of the cytochrome *P*-450$_{S21}$-phenylisocyanide complex upon binding of reduced NADPH–cytochrome-*P*-450 reductase (1159) 122

Jin, T., see Kobayashi, T. (1159) 243

Kagan, H.M., see Shah, M.A. (1159) 311
Kambara, T., see Semba, U. (1159) 113
Kameyama, K., see Kato, A. (1159) 22
Kasarda, D.D., see Tao, H.P. (1159) 13
Kato, A., Kameyama, K. and Takagi, T.
Molecular weight determination and compositional analysis of dextran-protein conjugates using low-angle laser light scattering technique combined with high-performance gel chromatography (1159) 22
Keen, J.N., see Fernandes, P.A. (1159) 67
Kiger, L., see Baudin, V. (1159) 223
Kister, J., see Baudin, V. (1159) 223
Klapper, M.H., see Lee, H. (1159) 286
Kobayashi, T., Honke, K., Jin, T., Gasa, S., Miyazaki, T. and Makita, A.
Components and proteolytic processing sites of arylsulfatase B from human placenta (1159) 243
Kozik, A., see Rąpała-Kozik, M. (1159) 209
Kunisada, T., see Semba, U. (1159) 113
Kuroki, Y., see Sohma, H. (1159) 150

Lacaze, N., see Baudin, V. (1159) 223
Lania, A., see Giardina, B. (1159) 129
Ledgerwood, E.C., George, P.M., Bathurst, I.C. and Brennan, S.O.
The predicted proteinase furin is not the hepatic proalbumin convertase (1159) 9
Lee, H., Faraggi, M. and Klapper, M.H.
Long range electron transfer along an α-helix (1159) 286
Li, X.-K., Lijnen, H.R., Nelles, L., Hu, M.-H. and Collen, D.
Biochemical properties of recombinant mutants of nonglycosylated single chain urokinase-type plasminogen activator (1159) 37
Lijnen, H.R., see Li, X.-K. (1159) 37
Lin, S.-R. and Chang, C.-C.
Chemical modification of arginine residues in α-bungarotoxin (1159) 255
Lundqvist, G., Yücel-Lindberg, T. and Morgenstern, R.
The oligomeric structure of rat liver microsomal glutathione transferase studied by chemical cross-linking (1159) 103
Luth, C., see Buck, F. (1159) 1

Makita, A., see Kobayashi, T. (1159) 243
Marchis-Mouren, G., see Ajandouz, E.H. (1159) 193
Marden, M., see Baudin, V. (1159) 223
Marsh, D., see Esmann, M. (1159) 51
Marshall, J.M., see Ponting, C.P. (1159) 155
Masson, P., see Cléry, C. (1159) 295
Matsushima, N., see Sohma, H. (1159) 150
Matsuura, Y., see Suzuki, T. (1159) 162
Mattheis, J.R., see Grossman, S.H. (1159) 29
Maurel, M.-C., Ban, E., Bidart, J.-M. and Combarnous, Y.
Immunochemical study of equine chorionic gonadotropin (eCG/PMSG): antigenic determinants on α- and β-subunits (1159) 74
Miura, S., see Iwamoto, Y. (1159) 122
Miyazaki, K., Hamano, T. and Hayashi, M.
Heat and autoclave resistance of cell-spreading activity of vitronectin (1159) 215
Miyazaki, T., see Kobayashi, T. (1159) 243
Moradas-Ferreira, P., see Fernandes, P.A. (1159) 67
Morgenstern, R., see Lundqvist, G. (1159) 103

Nagata, K.-i., see Suzuki, T. (1159) 162
Nelles, L., see Li, X.-K. (1159) 37
Nozawa, Y., see Suzuki, T. (1159) 162

Okabe, H., see Semba, U. (1159) 113
Okano, Y., see Suzuki, T. (1159) 162
Okonjo, K.O. and Aboluwoye, C.O.
Ionizable groups linked to the reaction of 2,2′-dithiobispyridine with hemoglobin (1159) 303

Pagnier, J., see Baudin, V. (1159) 223
Papp, S., Eden, D. and Highsmith, S.
Nucleotide- and temperature-induced changes in myosin subfragment-1 structure (1159) 267
Pollock, J.R. and Goff, H.M.
Lactoperoxidase-catalyzed oxidation of thiocyanate ion: a carbon-13 nuclear magnetic resonance study of the oxidation products (1159) 279
Polya, G.M. and Wettenhall, R.E.H.
Rapid purification and N-terminal sequencing of a potato tuber cyclic nucleotide binding phosphatase (1159) 179
Ponting, C.P., Holland, S.K., Cederholm-Williams, S.A., Marshall, J.M., Brown, A.J., Spraggon, G. and Blake, C.C.F.
The compact domain conformation of human Glu-plasminogen in solution (1159) 155
Poyart, C., see Baudin, V. (1159) 223
Punturieri, A., see Rizzo, P. (1159) 169

Quinlan, G.J., see Gutteridge, J.M.C. (1159) 248

Rąpała-Kozik, M. and Kozik, A.
Mechanism of ligand-protein interaction in plant seed thiamin-binding proteins. Probing the binding site of protein isolated from buckwheat seeds with a series of thiamin-related compounds (1159) 209
Rippa, M., see Hanau, S. (1159) 262
Rizzo, P., Tinello, C., Punturieri, A. and Taniuchi, H.
A study of hydrogen exchange of monoclonal antibodies: Specificity of the antigen-binding induced conformational stabilization (1159) 169

Schwarz, F.P., see DeLauder, S. (1159) 141
Semba, U., Yamamoto, T., Kunisada, T., Shibuya, Y., Tanase, S., Kambara, T. and Okabe, H.
Primary structure of guinea-pig Hageman factor: sequence around the cleavage site differs from the human molecule (1159) 113
Shah, M.A., Bergethon, P.R., Boak, A.M., Gallop, P.M. and Kagan, H.M.
Oxidation of peptidyl lysine by copper complexes of pyrroloquinoline quinone and other quinones. A model for oxidative pathochemistry (1159) 311
Shibuya, Y., see Semba, U. (1159) 113

Silverman, D.N., see Taoka, S. (1159) 274
Sohma, H., Watanabe, T., Kuroki, Y., Yoshino, H., Matsushima, N., Yazawa, M. and Akino, T.
Calcium dependent conformational changes of surfactant protein A (SP-A) and its collagenase resistant fragment with or without dithiothreitol (1159) 150
Spraggon, G., see Ponting, C.P. (1159) 155
Strupat, K., see Buck, F. (1159) 1
Suzuki, T., Nagata, K.-i., Matsuura, Y., Okano, Y. and Nozawa, Y.
Purification and characterization of a low M_r GTP-binding protein, *ram* p25, expressed by baculovirus expression system (1159) 162
Svensson, B., see Ajandouz, E.H. (1159) 193

Takagi, T., see Kato, A. (1159) 22
Tanaka, Y., Ishijima, A. and Ishiwata, S.
Super helix formation of actin filaments in an in vitro motile system (1159) 94
Tanase, S., see Semba, U. (1159) 113
Taniuchi, H., see Rizzo, P. (1159) 169
Tao, H.P., Adalsteins, A.E. and Kasarda, D.D.
Intermolecular disulfide bonds link specific high-molecular-weight glutenin subunits in wheat endosperm (1159) 13
Taoka, S., Chen, X., Tarnuzzer, R.W., Van Heeke, G., Tu, C. and Silverman, D.N.
Catalysis by mutants of human carbonic anhydrase II: effects of replacing hydrophobic residues 198 and 204 (1159) 274
Tarnuzzer, R.W., see Taoka, S. (1159) 274
Tinello, C., see Rizzo, P. (1159) 169
Torres, J.-M., Darracq, N. and Uriel, J.
Membrane proteins from lymphoblastoid cells showing cross-affinity for α-fetoprotein and albumin. Isolation and characterization (1159) 60
Tsubaki, M., see Iwamoto, Y. (1159) 122
Tu, C., see Taoka, S. (1159) 274

Uriel, J., see Torres, J.-M. (1159) 60

Van Boekel, M.A.M. and Hoenders, H.J.
In vivo glycation of bovine lens crystallins (1159) 99
Van Heeke, G., see Taoka, S. (1159) 274
Venugopal, M.G., Wolfersberger, M.G. and Wallace, B.A.
Effects of pH on conformational properties related to the toxicity of *Bacillus thuringiensis* δ-endotoxin (1159) 185

Wallace, B.A., see Venugopal, M.G. (1159) 185
Walz, Jr., F.G.
Relaxation kinetics of ribonuclease T_1 binding with guanosine and 3′-GMP (1159) 327
Watanabe, T., see Sohma, H. (1159) 150
Wettenhall, R.E.H., see Polya, G.M. (1159) 179
Williams, Sr., J.C., see DeLauder, S. (1159) 141
Wilson, M.R. and Easterbrook-Smith, S.B.
Clusterin binds by a multivalent mechanism to the Fc and Fab regions of IgG (1159) 319
Wolfersberger, M.G., see Venugopal, M.G. (1159) 185
Wong, P.T.T. and Armstrong, D.W.
FTIR spectroscopic kinetic analysis of alkaline phosphatase under hyperbaric manipulation (1159) 237
Wong, P.T.T., see Howlett, J.R. (1159) 227

Xu, K.-y.
Inhibition of H^+-transporting ATPase, Ca^{2+}-transporting ATPase and H^+/K^+-transporting ATPase by strophanthidin (1159) 109

Yamamoto, T., see Semba, U. (1159) 113
Yazawa, M., see Sohma, H. (1159) 150
Yoshino, H., see Sohma, H. (1159) 150
Yücel-Lindberg, T., see Lundqvist, G. (1159) 103